

**LIDAR Collection and Mapping Modernization
Exxon-Valdez Oil Spill (EVOS) Region**

FY2022 Request: \$1,088,529
Reference No: 64189

AP/AL: Appropriation

Project Type: Life / Health / Safety

Category: Natural Resources

Location: Statewide

House District: Statewide (HD 1-40)

Impact House District: Statewide (HD 1-40)

Contact: Theresa Cross

Estimated Project Dates: 07/01/2021 - 06/30/2026

Contact Phone: (907)269-6398

Brief Summary and Statement of Need:

In 2021 the State of Alaska DNR, USFWS, and USGS were awarded project funding from the Exxon-Valdez Oil Spill Trustee Council (EVOSTC) to map wetlands and hydrography across the EVOS Region. As part of this project the State of Alaska will be awarded \$1,088,529 over a four-year period to acquire high-resolution LIDAR (elevation data) and facilitate project management of the award. The LIDAR collection area encompasses 670,000 acres in the eastern portion of the Lower Copper River Delta.

Funding:	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
1018 EVOSS	\$1,088,529						\$1,088,529
Total:	\$1,088,529	\$0	\$0	\$0	\$0	\$0	\$1,088,529

☐ State Match Required ☐ One-Time Project ☐ Phased - new ☐ Phased - underway ☐ Ongoing
0% = Minimum State Match % Required ☐ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:

The department will use Light Detection and Ranging (LIDAR), which is a method for determining ranges (variable distance) by targeting an object with a laser and measuring the time for the reflected light to return to the receiver. This LIDAR contract will be managed by the State's Geospatial Information Officer (GIO). Airborne LIDAR data collection will take place during the 2022 summer season (after snowmelt). It will undergo internal quality control and review by the State of Alaska and will be made publicly available through the State of Alaska's Geoportal.

The value of LIDAR data goes far beyond the project scope of this EVOS project. LIDAR is a data asset to all State agencies. The State GIO will facilitate data sharing through the State of Alaska Geoportal and will ensure it is made available to all local, state, and federal agencies to support mission objectives.

The mapping area encompasses local, state, federal, native, and private lands. For these reasons the value of this data to Alaskans cannot be understated. Project leaders coordinated with United States Forest Service (USFS), the primary land owner and other landowners on the Copper River Delta, to

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develop the area of interest and specifications to ensure the data is of value far past the completion of this single EVOS project. In addition, the LIDAR data will assist National Oceanic and Atmospheric Administration (NOAA) in implementation of the Alaska Coastal Mapping Strategy, mapping Alaska's coastline and nearshore regions. The geodetic control will also be used to improve mapping accuracy of all data throughout the EVOS region. This type of foundational data can be used towards infrastructure planning, development, managing the State's natural resources, lands and habitats as well as the assessment, mitigation, and response of natural hazards.

Line Item Breakdown:

Line 1000 Personal Services	62,617.00
Line 2000 Travel	
Line 3000 Services	924,762.00
Line 3000 - Indirect	11,271.00
Line 3000 - General Administration	89,879.00
Total	1,088,529.00